THE CANNON

The Politically Correct Newspaper of the University of Toronto Engineering Society, Est. 1977

Vol. 12 Nov 4, 1994 No. 3

Engineering Open House a Hit

This was the first time that the Engineering Society has been open on U of T day. In the past, the only way that we had been present on this day was through the PARADE, the Blue and Gold, and the LGMB. For the last couple of years, Engineering has been the only faculty that has had a float. This year, we tried to get another faculty out. Letters were sent to other profacs, but dentistry was the only faculty that responded. However, in the end, we were the only ones out there that day. Needless to say, we won the prize for the best float.

The day was a hit. We had catering from the Second Cup: your basic muffins, cookies, coffee and hot chocolate; plus juice from the local grocery store. Everything was gone by about 12:30 and the day went on until 4pm. Malcolm's office provided us with arrow signs, t-shirts for the volunteers parking passes, lunch tickets, and the faculty paid for the food brought in.

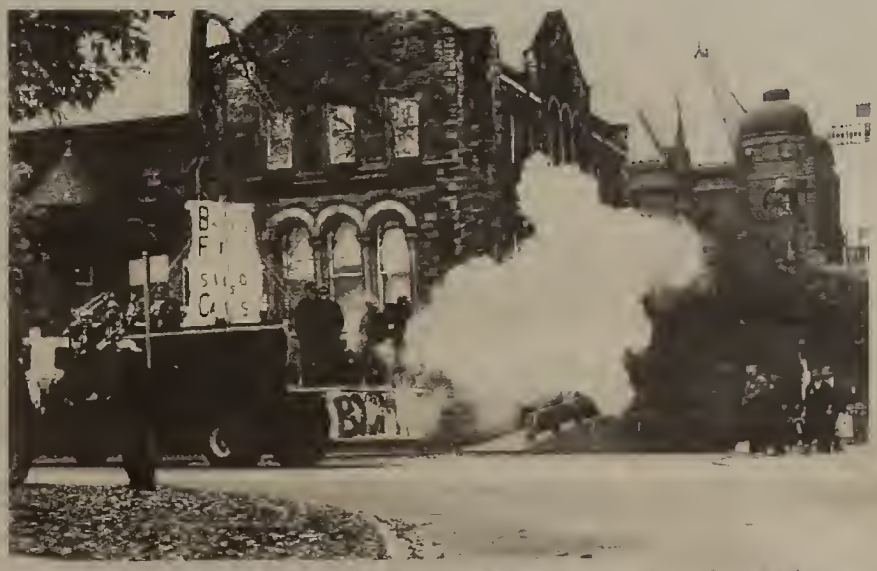
Poster boards provided by committees which include PEY, Employment and E.A.A. turned out very well and can hopefully be used again next year. We may, perhaps, get some more poster boards from other committees to promote what the Engineering Society does for the students. Our best give-a-way was the F!rosh handbook as it gives incoming students an excellent insight as to what they are getting themselves into.

Many people entered our golden doors that morning where they were recieved at a table situated at the bottom of the stairs in Sandford Fleming. At this table, we were selling cannons, books and t-shirts.

A lot of people from the past wearing bnad shirts (that are probably illegal to wear), as well as alumni and many high school students who wanted to find out all about engineering visited Eng. Soc. and the various other displays and exhibits.

All in all, it was a good day. I would like to thank everyone who worked on the float and helped to organize the event and clean up afterwards. You did a terrific job.

Ruby Nayyar
Engineering Society President
IND 9T5



The Almighty Skule™ Cannon impresses Open House Spectators with A Bang!

Battling For Spirit on Campus

Once again, at our great, spirited university, Homecoming was growing near. Once again, it was time to show our Engineering spirit in conjunction with all the other spirited faculties and colleges. With this goal in mind, I set out to find the other spirited student leaders.

My first stop, of course, was the traditional organizers of the parade: SAC. After a summer of being assured that there would be a parade, it turns out that they couldn't be bothered. Thus, it was decided that, not only would we once again venture onto campus, but that other profacs would be invited to demonstrate their spirit as well. Ten invitations were sent out and, supposedly several faculties, including Dentistry, Forestry, Rehab and Nursing, were ready to attend.

Saturday morning, after a week of work by the Blue & Gold Committee, we were ready to roll. By 12:00, we were awarded the trophy that we "won" in 1992 (thanks Brian). This was a tremendous achievement, ***since we were the only ones who bothered to show up!***

Despite this pitiful show of spirit by the rest of the university, we set out. After touring around front campus with a less than melodical LGMB (is that something new?), we stopped in front of Simcoe Hall, where the MIGHTY SKULE™ CANNON voiced its opinion of David Neelands handling of Homecoming.

After a stop at SAC to pillage food at their BBQ, a very full crew set out for a few more loops around campus where we managed to find BNAD members who could play instruments. With a final pass around the campus, the BNAD and the cannon left some animal rights demonstrators a bit damp and with an earache.

With the parade done, our ship was put in dry dock and the LGMB and cannonguard set out on foot, visiting the football game, the Ajax House dedication (where we met the LGMB founder), a Varsity rugby game, the SAC semiformal,and finally the alumni reception at Hart House.

Thanks go out to the following:
The Blue and Gold Committee
The LGMB
The MIGHTY SKULE™
CANNON and crew
The Alumni (impostor) Bnad
The Varsity Blues
Ajax
Malcolm McGrath
SAC (food and semi-formal)
The Blue Crew (the only other people on campus with spirit)
Don Andrews (for the truck)
And everyone who cared enough to show up!

Ken Gower
Blue and Gold Chair, 1994-1995
MECH 9T6

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FREEDOM OF EXPRESSION

What if...

Dateline: March 27, 1977
Locale: Canary Islands

Opening Scene: Las Palmas Explosion.
Terrorist Bomb: eight injuries.

Act II: Santa Cruz de Tenerife Fog.
Control Tower (CT): All flights are rerouted here.
Pan Am 1736 from L.A. lands.
KLM 4805 from Amsterdam lands.

Delay.

KLM takes extra fuel.

Fog.

CT: KLM standby for takeoff.
Pan Am taxi down runway.
Pan Am taxis down runway.
KLM accelerates for takeoff.
(¿misunderstood CT's accent?)

Out of the fog he came...
Pan Am: "What's he doing?
He'll kill us all!"
Pan Am swings left.
KLM tries early takeoff.
(Note: extra fuel = less altitude for given power)
KLM hits Pan Am.
KLM explodes.
Pan Am explodes.
CT: What the

Bulletin: Reports from the Canary Islands indicate that a major catastrophe occurred a few hours ago at Los Rodeos airport, which lacks ground radar facilities. Two full jumbo jets were involved, but witnesses mention several survivors.

Ilan Kelman
Eng Sci Env 9T6

Tuition Hike Outrageous

Recent reports in the media indicate that our federal government is proposing more cuts to University funding across Canada to the tune of 2.3 billion dollars. This is on top of any provincial cuts being made towards University funding and may leave students with a $4 000 - $5 000 tuition bill as early as next year. We, members of the University of Toronto Engineering Society, believe this to be outrageous!! Enough is enough!!

We are proposing a massive Canada-wide University demonstration in protest to these proposals. However, we need EVERYBODY'S support in order to have our voices heard. This demonstration may be in the form of general walk-outs, a letter writing campaign, or mass media coverage across the country, but it is important to have as many people involved as possible. We are talking about tens of thousands of people across the country coordinating their efforts into one major campaign.

Even though we will graduate within the next few years, many of us will continue on to post-graduate studies. We also have an obligation to future university students who may not be able to afford a post-secondary education.

Please do not take days to ponder this request. We eagerly await your responses, ideas or suggestions.

Karen Lev
Vice President External
Chem 9T6

John Khajadourian
A fed up student!!

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The Drive Welcomes Highschool Students

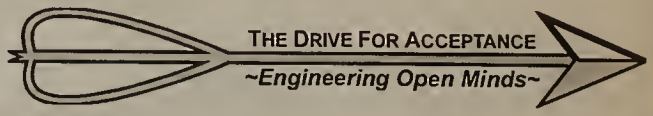
Visitors to our faculty on U of T Day were greeted with a new message this year. They were shown, through a series of posters, pamphlets and student and staff representatives, that Engineering values the contribution of all of its people, regardless of culture, gender, or sexual orientation. The Drive For Acceptance shared a display with The Engineering Society to welcome prospective students and their families to an environment which, together, we are working to improve.

To those who may still think of Engineers as drunken brutes who perpetuate intolerance, we showed an open-mindedness to the "big three" issues: racism, sexism and homophobia. Eng. Soc. hung an anti-racism poster next to the famous Bat Phone, The Drive's display contained an awareness-raising poster on being lesbian or gay, and The Women's Issues Committee had a few, my favourite being: "I want to be an Engineer, just like my mom." The Drive also offered information on initiatives to protect our students from types of discrimination which they may encounter on the street, but which aren't tolerated at Skule™, and pamphlets from social groups which exist here, and campus-wide, to welcome students who may be accustomed to feeling unaccepted elsewhere (my PEY in Timmins exposed me to enough of that!).

Since our Open House has never before had similar displays, there was some concern over possible negative reactions. Personally, I encountered only one such comment. While discussing The Drive on a break, away from our table, I was interrupted by one man as soon as I said "homophobia". He laughed in a snide, ridiculing way, muttering something about dropping loads of bricks on people. He was not willing to repeat it. When I pointed out that homophobia is analogous to racism and sexism, he laughed again and said, condescendingly, "I don't think so." I was then asked how "all of this" is relevant to Engineering. He did not agree that an inhospitable environment could affect a student's academic performance. By this time, I realized that I was dealing with a mind made-up, someone who was reciting his beliefs from memory rather than thinking about what he was saying. It is always disappointing to meet people who are willing to hate others for differences which are not a matter of choice. As my friends keep reminding me, we can not expect to change the world in one day.

Save that one incident, being at Open House was a very rewarding experience. The best part for me was noticing that pamphlets were slowly disappearing , and that people were discretely slipping LGB-OUT and Committee on Homophobia items under other books they were carrying. There were probably many people who were not able to come up and talk to us or take anything, but did benefit from simply knowing that Engineering is working towards positive change.

Vernon Naidoo
MMS 9T4+I+PEY



Fourth Years: Listen Up!

Hey Grads! This is another installment of Fourth Year Report. For those who don't already know, the Gradball this year will be held on March 18, 1994. The event will be held at the Marriott Hotel (Eaton Centre - Bay and Dundas). If you are ever in the vicinity, check it out!

Here is the scoop on renting a room in the Hotel. The room rates will be $103 for a single or double room, and $300 for a suite. A double room may be shared by up to four people with an extra $10 added on for every person above two. If you are considering renting a room for the evening, you should do so as soon as possible. We have a certain number of rooms on reserve for the night but they will only be held for up to two weeks before the event. So if you are planning on renting a room, start saving and order now! Just mention that you are with the Engineering Function on March 18.

The 9T5 days to Iron Ring Party will be held on November 25, 1994. The details will be revealed on November 3, so listen for announcements from you class rep and keep you eyes out for posters. Don't miss your chance to party your *&!@#$% off. The event will be great!!!!

To all the Grads that missed taking your Grad Photo: you will have to make arrangements with the photographer to get them done. If this isn't done soon, your photo will not be put on your class composite. The photographer, Brian Toll, can be reached at (905) 607-2949. There is a wild rumour that he will be on campus taking pictures at St. Mike's some time in mid-November. This may be your last chance to have them taken without having to go out to his studio in Mississauga. Call now to confirm the rumours.

In parting, let us take this opportunity to remind you that there are only four weeks left of this term! Hurray!! Only one term left and we will be able to call ourselves "no longer lowly undergrads". Until that time, enjoy Skule™, enjoy life, and party!

Sara Volo
Fourth Year Committee
IND 9T5

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THE CANNON

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Disclaimer
The CANNON is a vehicle through which undergraduate engineering students can express their opinions. The views expressed herein are those of the author and do not necessarily represent those of the editors or the Engineering Society unless so indicated.

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Changing of the Guard

Cannon *Might* Just Have Permanent Editors

Hello, everyone! Welcome to another edition of the Cannon with yet another set of editors! Kurt and I hope you enjoy this installment and look forward to reviewing submissions for our next issue. Articles, opinions, artwork, photographs, poetry, prose, other contributions and additional staff are always welcome!

There are many events planned within the various Departments, as well as within the University as a whole. Congratulations go out to members of the student body and faculty who took part in the U of T Day/ Homecoming festivities. There were many exhibits and demonstrations with which to entice the prospective frosh and other visitors, and the Float was an embodiment of Skule™ spirit. I hope that we can make next year's U of T Day an even bigger success. Upcoming events for the immediate future include the Men's Div I Volleyball game against New College, on Wednesday, November 9 and the Women's Ice Hockey game versus Scarborough on Thursday, November 10 at 8:00 pm. Come out and cheer on the teams!

Another upcoming event is the annual Ontario Engineering Competition. This year, the Competition will be held on February 17, 18 and 19, 1995 and will be hosted by Ryerson Polytechnic University. There are five categories from which competitors may choose to enter. *Entrepreneurial Design* requires a marketable product or service not currently available in Canada to be designed. In *Corporate Design*, the entrants' goal is to design a solution to a problem currently faced by a corporation. *Editorial Communications* allows the contender to identify a current technological issue and present a viewpoint on its social impact (APS103!). *Explanatory Communications* requires the participant to describe a complicated technical process or issue in lay terms so that an individual not in their discipline may understand (the process or issue). In the final category, *Parliamentary Debate*, the competitors defend or refute an argument with minimum preparation (the topic of discussion is not disclosed beforehand). There are awards for the first place winners of each category, as well as cash prizes for the first, second, and third place winners. In addition, the first and second place winners are invited to participate in the Canadian Engineering Competition, to be hosted by the University of Calgary on March 3, 4 and 5, 1995. Last year's OEC was hosted by the University of Guelph and teams from the University of Toronto placed in the top three in each category. I hope that this year we will have a strong showing/representation for the University-I encourage you to participate in the Competition and wish the entrants the best of luck with this endeavour. For more information, please contact Professor Cleghorn of the Mechanical Engineering Department at U of T or Robert Whitelaw, Chairperson of OEC1995 at

phone: (416) 979-5000 x-7091
email: oec95@acs.ryerson.ca

One final note: Midterms are nearing completion. Finals, however, are approaching (the schedule for final exams appears on Page 8). Between now and then, various Clubs will be hosting Dinner Dances. Find out when yours is and check it out!

Adrienne Chee Hing
MECH 9T6

Pulpless Fiction

Editor Replaces Usual Self-Righteous Column with Critical Movie Review

Ten megatons of TNT bang and three hundred gallons of blood - The essential and unmistakable ingredients of Quentin Tarantino's third film, *Pulp Fiction*, and nonetheless the makings of a blockbuster at the box office.

Tarantino assembles an all-star line-up cast and a half-hazardly written script into a pseudo-classic film, dazzling his viewers with off angle filming shots, rambling though occasionally witty scripts (a cross between Woody Allen and any *one* of Stallone's films), and an insatiable thirst for blood. It has the potential to be a riveting screamer, but the chopiness of scenes which ought to be exciting, and the overuse of music and add-lib-like acting as filler, make for an although strange, yet not unfortunately an all too powerful film. Quentin almost pulls it off by tantalizing the viewers into what promises to be a spell-binding scene, yet he fails to elevate it to its full potential and almost certainly losses the viewer, only so that he or she can be enticed again by another scene with the prospect of film viewing orgasm. No such luck.

Much like Tom Hanks in the movie *Big*, Quentin is a movie goer who knows what movie goers like (his previous employment being a video rental clerk). But his lack of experience in film direction and script writing show through the framework of an otherwise well produced film. The music is alluring, the acting intoxicating, and the guns loud.

Rates: 6.5 (out of 10)
Pulp Fiction can be scene in Cineplex Theatres everywhere.

Kurt Breede
GEO 9T6

Engineering Alumni Association
University of Toronto

An open letter to all members of the University of Toronto Engineering Community.

I am writing this letter on behalf of the University of Toronto Engineering Alumni Council to express our concern over recent events regarding Skule™ Spirit. As you may or may not be aware, certain constituencies have indicated that they wish to refrain from participating in the Engineering Society Orientation program.

This letter is not intended to enforce people's words or actions, but rather to emphasize the importance of Skule™ spirit to the undergraduates, alumni, and faculty.

The Engineering Society is by far the most active student society on campus. One only has to list its numerous accomplishments in order to realize the truth of this; the Toike Oike, the LGMB, Engineering Athletics, High School Liaison and the list goes on.

All of these activities are organized by a group of dedicated volunteers who are also juggling a full undergraduate course load. Many times it is said that the Engineers are the only students on campus with any spirit left.

It is this spirit which has made the Engineering Society the only student society on campus which funds its own Employment Liaison Office, dedicated solely to expanding employment opportunities for engineering graduates.

It is this spirit that has produced Skule™ firsts which were subsequently adopted by the rest of the University: Shinerama, and *GRADitude*.

It is this spirit which inspired the Class of 9T4 to pledge over $158,000 back to Skule™, smashing every University record. For the 10th straight year, Engineering had the highest leaving class pledge of any faculty or college graduating class at U of T.

It is this spirit which inspired the Levy Fund, where every full-time Engineering undergraduate donates $100 per year to help upgrade undergrad lab facilities.

Sometimes, in all the enthusiasm over their accomplishments, we take Skule™ spirit for granted. Spirit is instilled within our undergrads from day one, and this is done through a united Orientation program in which all students from all years and departments can participate in the same events. By splintering off and pushing our own agendas on factions of the student body on the first day, we destroy that element of unity which is so important to Skule™ spirit.

Therefore, we of the Engineering Alumni Council urge those who have concerns with the current Orientation program of the Engineering Society to discuss them with the Society, the Engineering Alumni Council and the administration. It is only by working together that we can preserve and strengthen Skule™ spirit.

Yours very truly,

Peter Gryniewski
President
Engineering Alumni Council

THE BARNES EXHIBIT

Months ago, you probably noticed a lot of slick advertising about something called Barnes. Then came reviews in the paper, five-minute blurbs in the news, and stuff on the radio, but because of those problem sets and tests you had, you ignored everything. Now that the media hype has died down and your midterms are over, you're still wondering what this Barnes stuff is all about. Is it really worth seeing? Well, read on to find out more....

The Barnes Exhibit is named after pharmaceutical tycoon Dr. Albert C. Barnes. Born in 1872 in Philadelphia, Barnes grew wealthy through his development in 1902 of Argyrol, an antibacterial drug which was sold globally. His art collection first began with a trip to Paris in 1912. The collection grew to include 180 works of Pierre-Auguste Renoir, 69 of Paul Cézanne, 60 of Henri Matisse and 44 of Pablo Picasso, as well as others by Henri Rousseau, Vincent van Gogh, Henri de Toulouse-Lautrec, and Claude Monet. In 1922, Barnes established a Foundation in his name in Merion, Pennsylvania to promote education and study of the visual arts. This gave students, but not the general public, access to the collection. Even after his death in a car accident in 1951, Barnes stipulated in his will that his collection could never travel, and that access to it would remain limited. However, by 1992, the Foundation was in desperate need of money in order to maintain and house the collection properly, so a court order was obtained for a brief world tour of 83 selected paintings. The tour included Tokyo and the famed Museé d'Orsay in Paris, both of which sold out and enjoyed record crowds. In North America, the tour has travelled to Washington, Fort Worth, and the Art Gallery of Ontario (AGO) in Toronto, the only Canadian stop of the tour. So far, the collection has been in Toronto since September 17, but will only remain until December 31.

Henri Matisse (1869-1954) ***Blue Still Life*** **1907**

Barnes' eccentricity was brought out in his novel approach to understanding the art in his collection. Instead of focusing study on the more traditional biographical information about the artists and their contemporary society, students in his Foundation learned about the use of light, lines, colour, and space within the art itself. Barnes referred to these abstract elements as "plastic values", and considered them inherent in all forms of art, transcending social, cultural and racial boundaries. This belief is reinforced through his unique arrangements of European, African, Oriental and Islamic paintings, ceramics, metalwork, and furniture together to display their common universal qualities. In the AGO exhibition, one wall display mirrors Barnes' original arrangement, and viewers can see for themselves the similarities between Picasso portraits, the elongated, stylised faces of Amadeo Modigliani and African tribal masks which, among other things, are displayed together.

The AGO exhibit features paintings ranging from the 1870's to the 1930's and includes the French Impressionist, Post-Impressionist and early Modern movements. The term "Impressionism" was first used derisively by a journalist commenting on a painting called "Impression" by Claude Monet, showing light effects of the sun rising over the sea. The work was part of an 1874 exhibition organized by a group of radical young painters who had been rejected by the Salon, the official French Art Academy at the time. Impressionism was soon expanded to refer to these painters, which included Monet, Manet, Renoir, Pissaro, Sisley and Cézanne, and their revolutionary movement. The Impressionists employed a novel style based on separating light effects on objects and their surroundings into elemental colours, and the conveyance of changing appearances through alternate forms of light. At the time, these concepts went against traditional styles incorporating realism or romanticism, and were ridiculed by the conservative art community. Barnes, collecting his works during this period, was therefore something of a visionary, but the harsh criticisms of the art he acquired must have influenced his restrictive attitude towards his burgeoning collection.

Previous to seeing the Barnes exhibit, I had read a few mixed reviews. Some raved that the exhibit was amazing and spectacular, while others complained about second-rate paintings and failed expectations. After seeing it for myself, I concluded that it was a bit of both; there were some clear masterpieces, while other paintings weren't that great. On the whole, though, the exhibit was well worth seeing, and is highly recommended. The quality and sheer volume of the works from this important artistic period, comparable to those in European or American galleries, alone makes it worth the effort.

The paintings are primarily organised by artist and chronology, starting with a room of Renoir paintings and ending with a selection of Matisse. The first thing you see going into the exhibit is a large, almost life-size painting by Renoir called "Leaving the Conservatoire". Renoir has a very vibrant, likeable pastel-type colour in his early paintings, and his large, cheruby figures seem almost Rubenesque. However, some of his later paintings appeared tediously detailed, and weren't as lively.

Cézanne also features prominently in the exhibition. Instead of the earthy reds, yellows and greens of Renoir, a lot of Cézanne's works are in blues, violets and browns, resulting in a darker composition. Cézanne often painted rural people and situations, and his characters are quite likeable. I found some of his stuff quite good, such as "The Card Players", "Boy With Skull", and "Peasant With Folded Arms". In these cases, his use of colour was extraordinary, offsetting

Continued on Page 6

Sports Shorts

Div II Men's Hockey

In this time of unease in the NHL, the true hockey fans are suffering from what I like to refer to as Hockey Withdrawal Syndrome (HWS). I, myself, have fallen into a great depression. However, I have found the cure to this horrible disease: DIV II MEN'S ICE HOCKEY. That's right. The Skule™ B Hockey Team has hit the ice (in more ways than one) for another season. Like a well-oiled machine, with a crank-rocker accelerating from 0 to 100 in no time flat, this team of superstars wows and excites their fans and opponents.

Come see the legend for yourself 7:00 pm. Friday night at Varsity Arena. I leave you with this installment of Coach's Corner:

DIV II HOCKEY GOOD
MIDTERMS BAD
MECH 9T6 GOOD
CIV 9T6 BAD
CLOWNS DON'T ALWAYS LAUGH
WHO IS M.C.?

Sincerely,
Coach Alex Mihailidis
MECH 9T6

Women's Soccer

The Engineering/Trinity Womens Soccer team has been having a wonderful season. We've been kicking some serious @#$%. We advanced to the Playoffs easily and our first post season game is on Sunday, November 6. Come out and support the team at 12:00 noon on Front Campus. Our record for the season was 3-3 and all our wins were shutouts. Many thanks to our Trinity friends for playing great and feeding us (we'll return the favour, really!).

Sara Volo
Commisioner, Womens Soccer
IND 9T5

Geo Men's Div II Volleyball

This year's Geo Men's Volleyball team is a steamrolling phalanx of brute strength. Our 2-2 record this season is only a small indication of our deadly and abusive grip over our opponents (regardless of the fact that both our wins were the results of defaults). Everyone is welcome to come out and cheer for this awesome show of sportmanship and raw talent. Our schedule is posted in the Geo Common Room.

Kurt Breede
Geo 9T6

NEWS AND VIEWS

PEY: Experience That Pays

While attending a Chem smoker for people who were interested in joining the Professional Experience Year (PEY) programme, I was asked to talk about what my working experience in the "real world" entailed. However, being caught by surprise, what I told the prospective PEY candidates didn't come close to what I should have said. I have considered many reasons for taking part in the PEY programme and will share with you my views and conclusions.

I am currently working in a small division of Warner-Lambert Canada called Adams Brands Manufacturing. My position in the R&D department is perfect from my standpoint as a student because I get to experience the many different facets of industry: the day-to-day struggles of a manufacturing plant, the demands of the marketing department for superior products, the pros/cons of large corporations, and the pros/cons of being a small division (almost like a small company). Having had a taste of all this, it is evident to me that most engineering students graduate very poorly prepared for the workforce. We are drilled on the importance of academics, getting high grades, being able to triple integrate, and being able to solve $\sqrt{32.114}$ in our heads (and I'm not kidding about this one!). For those of you who didn't know this already, you will most likely ***never*** need to triple integrate, and will probably hardly use any of the stuff we are lectured on. Your technical knowledge only counts for a very small portion of what you need to make it out there. And that is ***if*** you end up with a technical job. You'd be surprised at the type of work engineers end up doing.

I recently had a chat with my Plant Manager who happens to be a mechanical engineer. I asked him if an engineering degree ***really*** puts you that much ahead of other people. He told me, to my disappointment, that the only thing an undergraduate engineering degree tells the employer is that you have the ability to learn about and deal with technology. The degree also gives you many more employment opportunities than would an Arts degree, but that's about all. He clarified that there are much more important qualities than technical knowledge such as your ability to deal with people, the way you express yourself, your leadership qualities, and your attitude. So don't think that you can beat an artsie out of a job just because you have an engineering degree.

These qualities are very important because you are going to have to deal with people: marketing people, purchasing people, managers, plant operators... no matter what job you do. You are also going to have to be a politician because everywhere you go, particularly the larger corporations, there is politics; and if you can't deal with it you are useless. Furthermore, there is the fact that most people dislike engineers, so you are going to have to earn their trust and respect. Then there is all the team work that most companies are very big on at the moment. You thought that getting stuck with a bad lab-partner for the term was hell? Try having to work on a 2 yr. project with several stubborn people who either think their way is the only way or refuse to pull their weight!

Since there is not much in our curriculum to stress the importance of interpersonal skills, P.E.Y. is the way to go. Not only will you gain invaluable knowledge and skills that are hard to acquire sitting in a lecture room, but you will also make a bit of cash so that you can afford the $6,000 you will need for tuition real soon. If you can't afford to go on P.E.Y. there are other places you can go to develop your people skills. For me, being involved with the Engineering Society taught me a lot about public speaking. There is also Toast Masters.

But don't think that you are totally unprepared for the workforce. Our heavy-duty schedules are very similar to the kind of schedules you are going to have in the real world (unless you work for the government, of course). Companies these days are very big on being the first at everything, so they give you the most ridiculous deadlines for your work. The only difference is that although you are still stressed, you are not brain-dead from trying to figure out your lab or problem set.

To those of you who are planning on finishing the 4 years of engineering as fast as possible I hope you will stop and consider the benefits of doing P.E.Y. It is much easier to struggle through school when you have an idea of what's out there and where you want to go. Besides, everybody has degrees these days, but very few can graduate and say that they've got ***experience***.

Tanya Murua
CHEM 9T6+PEY

Student Patrols in Sandford Fleming

Are you someone on this campus who has had their wallet stolen, their bike stolen, or their textbooks stolen? Have you been unable to do a lab because the hard-drives were stolen or unable to print because the printer disappeared? Are you a student who spends long hours in this university late at night when no one else is around? Have you ever been afraid to go the bathroom late at night, afraid to open the common room door, or to take a walk around the building? Well I have! And I am sure that there are many students who also feel the same way. So what is this university going to do about security on this campus?

There are many programs such as Walk safer and locks on the women's bathroom doors already in place. Plus, when you call the emergency telephone number 978-2222, the U of T police know where you are calling from. (By the way ,this number is free to dial from any **pay phone** on campus.) Another bit of information that you should know is that the Engineering Buildings have the best lighting on campus. But, what else is the university planning on doing to decrease the thefts in the buildings and increase safety? Due to cut backs, the reductions in staff on the U of T police, and the cutting of the care-taking midnight shifts , the numbers of strangers on this campus has increased. There are very few people on this campus at night to deter people from committing crimes. Different departments on campus have taken measures to maintain safety for themselves. The Medical Sciences building has student security guards that sign students in through the front doors in the evenings and on weekends. Hart House also has a front door person who checks people coming in, as well as a patrol that walks through the building to check it throughout the night.

The University of Toronto has sought solutions to our problem of security at various other universities. The best idea found so far is from a university in the United States which has a student patrol. Duke University has had the student patrol since 1973. This patrol takes effect from 11 p.m. to 7 a.m. This would mean that a students would be paid to patrol within the university buildings. This patroling is done on a part-time basis. The student patrol would be made up of a small population of 100 and would add to the campus police force. The students would sign up for patrols whenever they had free time. The training for this positon would also be very minimal and each patrol would be equipped with a two-way radio to call back to home base. The student patrol would serve as eyes for the campus police. They would not have to get involved with any arrests. Would you, as a student, be willing to give up one evening a month to patrol the halls of this university and get paid for it? If you have any questions or comments on this idea, I would like to hear them. Please leave a message in my box in Eng. Soc. (President) or come by and talk to me about it. Why should we feel unsafe at this university? This place has been my second home since I have been here and I'm sure it has been likewise for most of you. Let's see how we can make a difference on this campus.

Ruby Nayyar
Engineering Society President
IND 9T5

The Drive For Acceptance

The Drive is comprised of students and staff who are working to improve the atmosphere in Engineering for people of different cultures, genders, and sexual orientations.

Weekly meetings are at 1:00 pm every Thursday in WB 139.
Subscribe to our e-moil newsletter by sending a request to [naidoo@ecf].

The Cannon Wants You!

The Cannon is intended to be a forum where the students of Skule™ can voice their opinions and/or display their creative talents. We encourage you to do so by submitting letters to the Editor, reviews, poetry, prose (fiction or non-fiction), artwork, or anything else which you would like to see published. Please place submissions (if text, then on disk) in the Cannon mailbox in Eng. Soc. All material will be returned. New staff welcome.

AROUND SKULE™ AROUND

Women in Engineering Association

The Women in Engineering Association is a newly formed group for female undergraduate and graduate students, administration and faculty. The goals are to provide support, mentorship and a forum through which to discuss issues and concerns relevant to our professional and personal development. Interests include factors affecting our working and learning environment, gender and discriminatory issues, and interpersonal interactions with all members of the engineering faculty community.

This year, the Association is hosting a variety of events to encourage the female members of our faculty in the pursuit of their career choices, to enhance their confidence in themselves and their abilities, and to promote a sense of community, pride and spirit in who they are. The WEA is currently in the process of developing a support system via the computer network. This will provide the female members of engineering at the University of Toronto a venue by which to communicate their ideas, concerns, problems and suggestions with one another. Other topics include events such as faculty gatherings with guest speakers from a variety of professions, such as research or industry, to allow our female students a chance to learn about the status of women in the engineering profession, the obstacles and opportunities present, and programs currently available to enhance the acceptance of female employees in engineering departments and the encouragement of their participation.

Recognizing that not all students begin their university career with the same background knowledge, workshops run by female members of the faculty to provide engineering students with help in technical areas are being proposed. The Association would also like to host an event for high school students to promote engineering as a potential career choice for women.

The WEA will be a beneficial addition to our engineering community and will strive to educate our women in a manner such that they will become important contributors to our society as a whole.

A meeting will be held this month to introduce the Association, as well as some issues pertaining to women in engineering. Any inquiries or comments may be submitted to the Cannon mailbox in Eng. Soc.

Adrienne Chee Hing
MECH 9T6

Engineering Alumni Association Awards Dinner

On October 21, my fellow Eng Soc officers and I had the good fortune of being invited to the Engineering Alumni Association Awards Dinner at the U of T Faculty Club. It was a terrific evening with great food (which fork do I use first?!) and an opportunity to glimpse into the lives of some very interesting people.

After the dinner and toasts to the Queen and the University of Toronto, with what must have been the finest filtered water I had ever tasted, the presentation of awards began. Inducted into the Engineering Alumni Hall of Distinction were William Charles Blundell (4T9), George Black Craig (4T9), George Byron Crawford (4T4), Earl Howard Dudgeon (4T8), and Adolf Monsaroff (3T4). The 2T5 Service Medal for Mid-Career Achievement went to Eugene Polistuk (6T9), the president and CEO of Celestica. Finally, the Engineering Alumni Medal went to George Douglas Tyndall Wright (4T9).

There were three impressions which I brought away from that evening. First, I was made more aware of the long history of Skule™—these alumni graduated before I was even a single cell! Second, and more importantly, I realized that a lot of great people have graduated before me and that

I have a lot to be proud of about going to U of T. Lastly, the most important thing I got from that evening was an appreciation for how important Skule™ spirit is. Were it not for the tremendous pride and Skule™ spirit of our alumni, as well as the recipients of the awards, we would not even have an Alumni Association at all. Skule™ spirit is what makes successful graduates proud to say that they were at U of T, thus making their accomplishments Skule's accomplishments. The spirit in the alumni trickles down to the students also. The fact that we, the students, can see them and their achievements gives us a sense of belonging to a long and proud tradition. Would alumni without Skule™ spirit donate thousands of dollars every year towards equipment for students? I think not.

Mike Paszti
Secretary
CHEM 9T6

Continued from Page 4

colder blues with warmer reds, violets and browns for a more vivid image. His still life "Compotier, Pitcher, and Fruit" was also stunning in its contrast between darks and lights. Some of his other paintings, however, seem colder, starker, and unfinished. In some cases, it looked like he was trying for the same effect he achieved in the works above, but just didn't go far enough.

Other artists in the exhibit had fewer of their works displayed, but some of these still stood out. Van Gogh's "Joseph-Étienne Roulin" (his mail handler friend from Arles), was the most notable of his works; I didn't like his reclining nude too much. Toulouse-Lautrec, noted primarily for his lithographs, only had one oil painting which wasn't too spectacular, while Gaugin, famous for his South Seas motifs, had two which were both enjoyable and typical of his style. Pissaro, who paints with zillions of tiny coloured dots, only had one work in the collection, but I liked it immensely. It was a harbour scene, I think, and employed soft aqua blues and violets. I had heard people raving about the Picassos in the exhibit, but I only really found his "Acrobat and Young Harlequin" to be worthy of that type of praise. His "Young Girl with Goat" was less exciting, as were both of his smaller, black and brown portraits in the "Foundation wall" display. Monet was sparsely represented, but I found his "Woman Embroidering" and "The Boat Studio" quite nice, despite the rather bland use of colour in the latter. Modigliani's most impressive work was his amazing "Reclining Nude from the Back", where contrasts both in the woman's light peachy skin with the dark burgundy couch, and the sensuous curves of her body with her mask-like face were extremely striking. Lastly, Matisse's works, although numerous, were largely disappointing; I found his "Blue Still Life" to be the strongest work in this selection. The "Madras Headdress" seemed a bit too gaudy, and "The Joy of Life" a bit too chaotic. His other stuff was more caricature than attempt at expression, and was plodded through in dull browns and greys, nothing near as vibrant as the other works of the exhibit.

If you still haven't gone to see the exhibit, tickets can be bought in advance from the box office at the AGO or from Ticketmaster, and are $12 for students and $15 for adults. Tickets include admission to the AGO but give an exact time for the Barnes viewing, so try to get there early. Recommended viewing time is about an hour. If you like a bit of extra background on Barnes and the artists, audio tours are also available for $4, and in the shop you can buy all sort of neat gimmicks ranging from postcards, posters, keychains, T-shirts, and sweatshirts, if you're into that sort of thing.

Enrico Vonghia
Chem 9T3

Memorandum

From: Mike Paszti, Secretary
To: All Class reps

The job of the class reps is to keep their classes informed. A lot of people put a lot of work into making Eng. Soc. events happen. Let's not let their hard work be in vain. Briefly, the job description of class rep is as follows:

- Read your mail every day
- Keep your class informed
- Join a committee and encourage your class to do the same

Thanks,
Mike Paszti

SKULE™ AROUND SKULE™

Greetings from the Employment Committee

So what's new with employment, you ask? Well, there are a few new bits of information to relate, so here it comes! Every day the Career Centre critiques peoples' resumes, and all that is required to take advantage of this awesome service is to cross St. George street and make an appointment. Currently, the waiting list is two weeks, so you should consider making an appointment soon. On November 10, from 13:00-15:00, the Career Centre is putting on a presentation where people who specialize in hiring for companies will discuss the interview process. This will include all sorts of valuable information ranging from what they look for in an employee, to the types of questions they ask. Space is limited so you must sign up for this—check the Career Centre for details.

Finally, as well as being Employment Chair, I am on the Career Centre's users committee and meet once every two months with members from the other faculties to discuss matters of mutual interest relating to jobs and the Career Centre. Any complaints, problems, compliments that you may wish to share with me regarding what you think can improve our already fantastic Career Centre would be greatly appreciated. Please leave a note in my mailbox in Eng Soc if you have any questions or input.

Julian Wright
IND 9T7

NΨ

The NΨ Dinner Dance will be held on Saturday, November 12th at 6:30 pm at the Primrose Hotel. All 130 tickets have been sold out!! If you are still interested in attending and do not have a ticket, please contact Av (NΨ Dinner Dance Coordinator) or Aaron (Club Chair).

Fourth Year Grad Comments for the Skule™ Book are due by Friday, November 11th. Please submit them to the NΨ Club Chair's mailbox. The comments can be as big as 22 by 10 characters long.

The NΨ Stock Market Club has invested. After hours of statistical analysis (fighting over the dart) and projecting trends (2 throws out of 3), ATI stock was chosen. The $1800 stock fund was invested in $6/share ATI stock. To date, the results have been positive.

Magic fever has swept the Common Room . The next Smoker, Magicfest, will be taking place...soon. Come on out and enjoy!

Aaron Steinman
Club Chair

Geo

Thus far into into the academic year, the Geo Club has hosted 5 successful smokers, each of them exceeding in room capacity attendance (> 2). Word on the street has it that people are asking for a *Geofest II*. We are however, still trying to recover from the financial "kick to the head" the first one turned out to be. Nonetheless, it was a blast and we were more than pleased to see so many people turn out. Our tentative smoker and movie nite schedule for the month of November is Thursday the 10th and Thursday the 24th, respectively. Everyone and anyone is welcome, provided they show up.

Our Club Dinner will be held on Februaury 4th, place yet to be determined. Students from all years in Geological and Mineral Engineering, as well as from other departments, are welcome to feast, drink and pillage. Tickets will be sold sometime, somewhere. Price:$5-$200.

This year, Geological and Mineral Engineering had an excellent turnout for U of T day, with students from 2nd to 4th year coming out to help with the displays. Our setups included computer simulations of mining projects, mineral identifications with petrographic microscopes and hand specimens, a marine geology display, an eye-catching geotechnical display, and an ecological engineering display courtesy of Boojum Research Industries. Thanks go out to everyone who attended and we hope to see you all back again next year (well, unless you graduate).

We're looking forward to hosting countless other events for engineering students for the rest of this year. So keep an eye out!

PS: GEO ROCKS!

Kurt Breede
Social Chair
GEO 9T6

Remaining Civil

As many of you know, the job market for Civils, especially structural, has not been the greatest lately. Although the various levels of government employ a large number of Civil Engineers, the majority of work remains with private companies. Many engineers are either self-employed or work in engineering consulting firms. The projects are diverse and include the design of bridges and buildings, environmental impact assessments, subway system design, foundation studies for dams, and construction management. Unfortunately, few of these fields have seen enough business coming their way to necessitate the hiring of new staff. Although the recession is officially over, predictions that this will be a jobless recovery may seem to be holding true for Civil Engineers.

Gary Karjala of Peter Kiewit Sons confirms that a jobless recovery is the correct term to use for what is happening in the job market for Civils. From his perspective, the market is in a holding pattern at the moment. Although the construction market has improved, prices are very depressed. One large government contractor, for example, is still paying the same prices for their contracts as they were in 1985. Companies taking on these types of jobs are doing so with existing staff in an effort to remain lean and mean.

In terms of what the future holds, Mr. Karjala noted the increase in "privately funded and design built work." For example, the new Hwy. 407 and the bridge to PEI are now being handled by private consortiums. He also sees a great deal of future work in the environmental areas such a wastewater systems, potable water systems and wastewater treatment. In terms of what young engineers can be doing to prepare themselves for the future, Mr. Karjala suggested that, with the move to privately funded projects, a financial and cost background in addition to traditional engineering experience would be useful.

Laurie Weishuhn of Hatch Associates expressed similar comments in terms of current trends. Her firm is also taking on few new hires. She does, however, see some growth in rapid transit and tunnelling work in the US, an area which should continue to grow for the next ten years or so.

So, where does this information leave the prospective Engineer who is looking for a full-time job? First of all, this information should indicate that, with a decrease in job prospects, it is critical that you take the time to think about your career goals. Develop a plan and work hard toward achieving the job search goals that you set for yourself. Remember that flexibility is essential and that the single most valuable thing.

Electrical and Computer Engineering

Dinner Dance: On Saturday, November 5th, the ECE Club will be hosting its Annual Semi-Formal Dinner & Awards Dance at the Polish Cultural Centre, 206 Beverly Street. Tickets are $23/person, or $45/couple, and are available from Class reps and at the ECE Club office, room SF B640. Price includes dinner, wine & dancing. There are still some tickets available, so hurry to buy one before we sell out! Last day to purchase tickets is Wednesday, November 2nd. We want students from all years to come out (yes F!rosh too).

Smoker: First Year Electrical & Computer Engineering F!rosh...This one is especially for you! The ECE Club will be hosting a F!rosh Smoker in January, with free pizza for all Elec & Comp F!rosh. Don't miss out! Tune in to your class reps for further details.

Lillian Kulhanek
ELEC 9T5

Ind

The Industrial Club dinner will be taking place on November 17th, in Sigfrieds Restaurant at 300 Adelaide Street East. The cost of the five course meal is $20/person. Semi-Formal attire is suggested. After dinner, arrangements are made to go to RPM Night Club. Nuff Said.

Christy Stinson
IND 9T5

ANNOUNCEMENTS

PEY APPLICATIONS

All applications are due December 21 @ 3 pm.
Please note that two copies of the Accis Form are required per application.

Upcoming Holidays:

Social Contract Day:
Friday December 23, 1994
Christmas/New Year :
Monday December 26, 1994 to Friday December 30, 1994, inclusive

EXECUTIVE COMMITTEE MEETINGS

The following is a list of Executive Committee meetings. All meetings will be held in GB173 at 2:00 pm. (Please note. All meetings are on Wednesdays)

November 9, 1994
December 14, 1994
January 11, 1995
February 8, 1995
March 8, 1995
April 12, 1995
May 10, 1995
June 14, 1995

FACULTY COUNCIL MEETINGS

The following is a list of Faculty Council meetings. All meetings will be held in GB202 at 2:00 pm.

Wednesday, November 30,1994
Monday, February 27, 1995
Wednesday, May 31, 1995

F!ROSH-FOR-A-DAY

Friday November 18
&
Friday November 25

Volunteer to guide a Pre-F!rosh!
Eat lunch with them (FREE LUNCH 12-1)
Show them around campus (1-2)
Meet them at Suds (3->)

Sign up in Eng Soc
or Contact Franny Jewett
Highschool Liaison Chair

MEN'S RUGBY

The team ends the season with a fabulous record of five wins and one loss. Playoffs are in early November. It's not too late to come out and see some rough and tumble games!

EXAM SCHEDULE

D	AER301F	DYNAMICS	MON DEC 12,1994 - 9:30 A.M.	AER301F O
A	AER305F	FLUID MECHANICS	FRI DEC. 16,1994 - 9:30 A.M.	AER305F A
X	AER402F	ATMOSPHERIC FLIGHT	MON DEC 12,1994 - 9:30 A.M.	AER402F X
D	AER410F	GASDYNAMICS	FRI DEC 09,1994 - 9:30 A.M.	AER410F D
C	AER415F	FUND.OF LASERS &PHOT	MON DEC 19,1994 - 2:00 P.M.	AER415F C
A	APM288F	DIFF EQUATIONS I	MON DEC 19,1994 - 2:00 P.M.	APM288F A
C	APM291F	DIFFERENT EQUATIONS	WED. DEC 07,1994 - 2:00 P.M.	APM291F C
A	APM384F	PART.DIFFERENT.EQUA	FRI. DEC 09,1994 - 9:30 A.M.	APM384F A
A	APS103F	ENG SOCIETY & ENVIR	WED DEC 14,1994 - 2:00 P.M.	APS103F A
B	APS105F	COMPUTER FUNDAMENTAL	MON DEC 19,1994 - 9:30 A.M.	APS105F B
A	APS106F	FUNDAMENT OF COMPUT	MON. DEC. 19,1994 - 9:30 A.M.	APS106F A
D	APS107F	INTRO TO COMP FUND	MON. DEC. 19,1994 - 9:30 A.M.	APS107F D
A	APS181F	WRITING AS EFF COMM	WED DEC. 14,1994 - 9:30 A.M.	APS181F A
D	APS182F	EFFECTIVE TECH WRIT	WED DEC 14,1994 - 9:30 A.M.	APS182F O
X	APS232F	ENTREPRE & SMALE BUS	THR. DEC. 15,1994 - 9:30 A.M.	APS232F X
A	APS302F	ENG SOCIETY & ENV II	WED. DEC 14,1994 - 2:00 P.M.	APS302F A
A	BME595F	BIOSYSTEMS IV	TUE DEC 13,1994 - 9:30 A.M.	BME595F A
A	CHE112F	CHEMISTRY	MON. DEC 19,1994 - 9:30 A.M.	CHE112F A
A	CHE150F	CHEMISTRY	TUE DEC. 13,1994 - 9:30 A.M.	CHE150F A
B	CHE200F	APPLIED CHEMISTRY I	MON. DEC 12,1994 - 2:00 P.M.	CHE200F B
A	CHE203F	APPLIED CHEMISTRY II	WED DEC 07,1994 - 2:00 P.M.	CHE203F A
C	CHE209F	CHEMICAL PROCESSES	MON DEC 12,1994 - 2:00 P.M.	CHE209F C
C	CHE211F	FLUID MECHANICS	MON DEC 19,1994 - 2:00 P.M.	CHE211F C
C	CHE221F	CAL & NUM. METHODS	FRI DEC 09,1994 - 2:00 P.M.	CHE221F C
A	CHE311F	SEPARATION PROCESSES	TUE DEC 13,1994 - 2:00 P.M.	CHE311F A
C	CHE321F	APP.DIFFEREN EQUAT.	TUE. DEC 20,1994 - 2:00 P.M.	CHE321F C
C	CHE331F	THERMODYNAMICS II	THR DEC 08,1994 - 9:30 A.M.	CHE331F C
C	CHE332F	REACTION KINETICS	THR DEC 15,1994 - 2:00 P.M.	CHE332F C
C	CHE372F	THERM.&REACT.KINETIC	TUE DEC. 13,1994 - 2:00 P.M.	CHE372F C
O	CHE390F	ENVIRONMENTAL CHEM I	MON. DEC 19,1994 - 2:00 P.M.	CHE390F D
D	CHE412F	ADV. REACTOR DESIGN	FRI DEC. 16,1994 - 9:30 A.M.	CHE412F D
A	CHE463F	POLYMER SCI & ENG	MON DEC 12,1994 - 2:00 P.M.	CHE463F A
A	CHE466F	BIOPROCESS ENGINEER.	TUE. DEC 13,1994 - 2:00 P.M.	CHE466F A
D	CHE468F	NUCLEAR ENGINEERING	TUE DEC 20,1994 - 2:00 P.M.	CHE468F O
C	CHE490F	BIOSYSTEMS III	FRI. DEC. 09,1994 - 2:00 P.M.	CHE490F C
D	CHE535F	RATE PROCESSES I	WED DEC. 07,1994 - 2:00 P.M.	CHE535F D
C	CHE553F	ELECTROCHEMISTRY	MON DEC. 19,1994 - 2:00 P.M.	CHE553F C
A	CIV100F	APPLIED MECHANICS	FRI DEC. 16,1994 - 2:00 P.M.	CIV100F A
D	CIV102F	STRUCT & MATERIALS	WED. DEC 07,1994 - 9:30 A.M.	CIV102F D
C	CIV210F	SOLID MECHANICS I	THR DEC 08,1994 - 2:00 P.M.	CIV210F C
A	CIV255F	SURVEYING	WED. DEC 07,1994 - 2:00 P.M.	CIV255F A
A	CIV261F	ENGINEERING MATH I	FRI DEC 16,1994 - 9:30 A.M.	CIV261F A
C	CIV275F	MECH OF MATERIALS	FRI. DEC. 16,1994 - 9:30 A.M.	CIV275F C
X	CIV310F	STRUCTURAL ANALYS I	WED. DEC. 07,1994 - 2:00 P.M.	CIV310F X
D	CIV312F	STEEL& TIMBER DESIGN	FRI. DEC. 09,1994 - 2:00 P.M.	CIV312F D
A	CIV321F	GEOMECHANICS	MON DEC 12,1994 - 2:00 P.M.	CIV321F A
X	CIV331F	TRANSPORT I - DESIGN	FRI. DEC. 16,1994 - 2:00 P.M.	CIV331F X
A	CIV341F	ENVIRONMENTAL ENG.II	MON DEC 19,1994 - 9:30 A.M.	CIV341F A
D	CIV416F	REINF CONCRETE II	MON DEC. 12,1994 - 2:00 P.M.	CIV416F D
A	CIV420F	CONSTRUCTION ENG	TUE. DEC. 13,1994 - 2:00 P.M.	CIV420F A
D	CIV514F	CONCRETE CONSTRUCT	THR DEC 08,1994 - 9:30 A.M.	CIV514F D
X	CIV519F	STRUCTURAL ANA II	FRI. DEC. 16,1994 - 2:00 P.M.	CIV519F X
A	CIV524F	ROCK MECHANICS	TUE DEC 20,1994 - 2:00 P.M.	CIV524F A
A	CIV531F	TRANSPORT III- PLANN	MON. DEC. 19,1994 - 2:00 P.M.	CIV531F A
A	CIV540F	ENVIRON. ENG.III	THR DEC 15,1994 - 2:00 P.M.	CIV540F A
X	CIV549F	GROUNDWATER	MON DEC. 12,1994 - 9:30 A.M.	CIV549F X
C	CIV550F	WATER RESOURCES ENG	WED. DEC. 07,1994 - 2:00 P.M.	CIV550F C
A	CIV575F	BUIEDING SCIENCE	FRI DEC. 09,1994 - 2:00 P.M.	CIV575F A
A	CSC180F	COMPUTER PROGRAMMING	FRI DEC. 16,1994 - 2:00 P.M.	CSC180F A
C	CSC181F	INT TO COMP.PROGRAM.	FRI. DEC. 16,1994 - 2:00 P.M.	CSC181F C
A	CSC326F	PROGRAMMIN LANGUAGES	THR DEC. 15,1994 - 9:30 A.M.	CSC326F A
X	CSC470F	COMP SYS MODEL & ANA	WED. DEC. 07,1994 - 9:30 A.M.	CSC470F X
C	ECE212F	CIRCUIT THEORY	WED DEC. 07,1994 - 2:00 P.M.	ECE212F C
D	ECE241F	DIGITAL SYSTEMS	FRI. DEC. 09,1994 - 2:00 P.M.	ECE241F D
A	ECE250F	ELECTRIC CIRCUITS	FRI DEC 09,1994 - 2:00 P.M.	ECE250F A
D	ECE273F	ELECT CIR & ENER CON	FRI DEC. 16,1994 - 9:30 A.M.	ECE273F D
A	ECE310F	SYST & SIGNAL ANAL A	MON. DEC. 19,1994 - 2:00 P.M.	ECE310F A
A	ECE320F	FIELDS AND WAVES	FRI. DEC. 09,1994 - 9:30 A.M.	ECE320F A
C	ECE330F	SEMICONDUCT. PHYSICS	FRI. DEC. 16,1994 - 9:30 A.M.	ECE330F C
C	ECE334F	DIGITAL ELECTRONICS	FRI. DEC 09,1994 - 2:00 P.M.	ECE334F C
X	ECE341F	COMPUTER ORGANIZ.	TUE DEC. 13,1994 - 9:30 A.M.	ECE341F X
C	ECE350F	PHYSICAL ELECTRONICS	FRI DEC. 16,1994 - 9:30 A.M.	ECE350F C
D	ECE353F	COMPUTER ORGANIZ A I	MON. DEC 12,1994 - 2:00 P.M.	ECE353F D
C	ECE354F	ELECTRONIC CIRCUITS	MON DEC. 19,1994 - 2:00 P.M.	ECE354F C
A	ECE355F	SYST & SIGNAL ANAL I	WED. DEC. 07,1994 - 2:00 P.M.	ECE355F A
C	ECE410F	CONTROL SYSTEMS I	FRI. DEC. 16,1994 - 9:30 A.M.	ECE410F C
C	ECE413F	POWER SYSTEM ANAL	MON. DEC. 19,1994 - 2:00 P.M.	ECE413F C
A	ECE416F	COMMUNICATION SYSTEM	FRI. DEC 09,1994 - 9:30 A.M.	ECE416F A
A	ECE424F	MICROWAVES	WED DEC 07,1994 - 9:30 A.M.	ECE424F A
A	ECE426F	MODERN OPTICS	MON DEC. 19,1994 - 2:00 P.M.	ECE426F A
A	ECE443F	CON PRGM.& OPER.SYST	TUE DEC 13,1994 - 2:00 P.M.	ECE443F A
D	ECE444F	SOFTWARE ENGINEERING	TUE DEC 20,1994 - 2:00 P.M.	ECE444F D
A	ECE445F	BIOELECTRICITY	MON DEC. 12,1994 - 9:30 A.M.	ECE445F A
A	ECE446F	ELECTROACOUSTICS	WED DEC. 14,1994 - 2:00 P.M.	ECE446F A
D	ECE471F	INSTRUMENTATION DES	WED. DEC. 14,1994 - 2:00 P.M.	ECE471F D
D	ECE512F	ANALOG FILTERS	MON. DEC. 12,1994 - 2:00 P.M.	ECE512F D
C	ECE533F	POWER ELECTRONICS	TUE DEC. 20,1994 - 2:00 P.M.	ECE533F C
A	ECE534F	INTEGRATED CIR ENGN.	TUE. DEC 20,1994 - 9:30 A.M.	ECE534F A
C	ECE535F	SEMICONDUCTOR DEVICE	THR DEC. 15,1994 - 2:00 P.M.	ECE535F C
C	ECE557F	SYSTEMS CONTROL	FRI DEC. 16,1994 - 2:00 P.M.	ECE557F C
D	ENG182F	EFFECT TECH WRITING	WED DEC. 14,1994 - 2:00 P.M.	ENG182F D
A	ENG284F	VARIETIES OF FICTION	THR DEC 15,1994 - 9:30 A.M.	ENG284F A
A	ENG286F	LITERATURE & SCI I	THR DEC. 15,1994 - 9:30 A.M.	ENG286F A
D	ENG495F	ENGINEERING COMMUN	TUE DEC 20,1994 - 2:00 P.M.	ENG495F D
A	FRE186F	NON-ARTS FRENCH I	WED DEC 14,1994 - 9:30 A.M.	FRE186F A
B	GEO401F	MINERAL EXPLORATION	FRI DEC. 09,1994 - 2:00 P.M.	GEO401F B
A	GEO410F	HYDRO-EXPLOR & RECO	WED DEC 14,1994 - 9:30 A.M.	GEO410F A
A	HPS280F	HISTORY OF SCIENCE	WED. DEC. 14,1994 - 2:00 P.M.	HPS280F A
C	IND208F	ALGO.& NUMER METHODS	WED. DEC. 07,1994 - 2:00 P.M.	IND208F C
A	IND216F	INTRO ERGONOMICS ENG	MON. DEC. 12,1994 - 2:00 P.M.	IND216F A
C	IND320F	DES & ANAL.INFO.SYS	TUE DEC. 20,1994 - 2:00 P.M.	IND320F C
X	IND321F	INOUS ERGO.& WORKPL.	WED DEC 07,1994 - 2:00 P.M.	IND321F X
D	IND322F	SCHEDUEING	MON DEC. 12,1994 - 9:30 A.M.	IND322F D
C	IND323F	OECIS.SUPPORT SYSTEM	FRI. DEC 09,1994 - 9:30 A.M.	IND323F C
A	IND328F	STS.MOD.& SIMULATION	TUE DEC 13,1994 - 2:00 P.M.	IND328F A
A	IND350F	ENG ECO & ACCOUNTING	FRI. DEC. 16,1994 - 9:30 A.M.	IND350F A
D	IND370F	ENGIN ECO. ANALYSIS	THR DEC. 08,1994 - 9:30 A.M.	IND370F D
A	IND413F	DECISION ANALYSIS	MON. DEC 19,1994 - 9:30 A.M.	IND413F A
B	IND415F	PRODUCTION SYSTEMS	FRI. DEC. 09,1994 - 2:00 P.M.	IND415F B
A	IND420F	MATHEMATICAL PRGM	WED. DEC 14,1994 - 9:30 A.M.	IND420F A
A	IND424F	DES OF HUM-MACH SYS.	FRI DEC. 16,1994 - 9:30 A.M.	IND424F A
C	IND425F	OYNAMICS OF IND.SYS.	WED DEC 07,1994 - 9:30 A.M.	IND425F C
C	JVM209F	ENGINEERING MATERIAL	WED. DEC 14,1994 - 9:30 A.M.	JVM2091 C
A	MAT186F	CALCULUS I	MON. DEC 12,1994 - 9:30 A.M.	MAT186F A
A	MAT188F	LINEAR ALGEBRA	WED OEC 07,1994 - 9:30 A.M.	MAT188F A
A	MAT194F	CALCULUS I	FRI. DEC 09,1994 - 9:30 A.M.	MAT194F A
C	MAT280F	CALCULUS	FRI. DEC 09,1994 - 2:00 P.M.	MAT280F C
B	MAT290F	ENG MATHEMATICS I	MON DEC 12,1994 - 2:00 P.M.	MAT290F B
A	MAT291F	CALCULUS III	TUE. DEC 20,1994 - 9:30 A.M.	MAT291F A
A	MAT293F	CALCULUS	FRI OEC. 09,1994 - 9:30 A.M.	MAT293F A
A	MAT389F	COMPLEX ANALYSIS	FRI. DEC. 09,1994 - 9:30 A.M.	MAT389F A
A	MEC200F	ENG.DESIGN & GRAPHIC	MON OEC 19,1994 - 2:00 P.M.	MEC200F A
A	MEC230F	MECHANICS OF SOLID I	MON OEC. 12,1994 - 9:30 A.M.	MEC230F A
C	MEC240F	STAT QUALITY & MEAS.	FRI DEC. 09,1994 - 9:30 A.M.	MEC240F C
A	MEC242F	ENGINEERING ANALYS I	WED DEC 14,1994 - 9:30 A.M.	MEC242F A
C	MEC271F	FLUID MECHANICS	TUE. DEC. 20,1994 - 2:00 P.M.	MEC271F C
C	MEC301F	KINE &DYNAM OF MACH.	MON DEC. 19,1994 - 2:00 P.M.	MEC301F C
D	MEC320F	FLUID MECHANICS	FRI DEC. 09,1994 - 9:30 A.M.	MEC320F D
C	MEC331F	MECHAN OF SOEIDS II	TUE DEC 13,1994 - 2:00 P.M.	MEC331F C
D	MEC345F	NUMERICAL METHODS II	THR. DEC 15,1994 - 2:00 P.M.	MEC345F O
A	MEC370F	CONTROL SYSTEMS	WED DEC. 07,1994 - 2:00 P.M.	MEC370F A
C	MEC376F	SOLID MECHANICS	TUE DEC 20,1994 - 2:00 P.M.	MEC376F C
C	MEC377F	FUNDA MANUF. TECHN.	WED DEC. 14,1994 - 2:00 P.M.	MEC377F C
D	MEC400F	COMP.AID GRAPH &DES.	THR DEC. 08,1994 - 9:30 A.M.	MEC400F D
D	MEC428F	ENERGY CONVERSION	FRI. DEC. 09,1994 - 2:00 P.M.	MEC428F D
D	MEC431F	HEAT & MASS TRANSFER	TUE. DEC 13,1994 - 9:30 A.M.	MEC431F D
A	MEC455F	CONTROL SYSTEMS I	FRI. DEC. 16,1994 - 9:30 A.M.	MEC455F A
D	MEC477F	AUTO MANUFACTURING	FRI. DEC. 09,1994 - 2:00 P.M.	MEC477F O
D	MEC506F	ENGINEERING ANAL.II	THR. DEC. 15,1994 - 9:30 A.M.	MEC506F D
A	MMS201F	MICROSTRUCTURAL SCI.	MON. DEC. 12,1994 - 2:00 P.M.	MMS201F A
C	MMS202F	THERMODYNAMICS	TUE. DEC 20,1994 - 2:00 P.M.	MMS202F C
A	MMS222F	MAT.SCI & ENGINEER	WED. DEC. 14,1994 - 2:00 P.M.	MMS222F A
A	MMS302F	ELECTROCHEM.& CORRO.	FRI DEC. 09,1994 - 2:00 P.M.	MMS302F A
A	MMS306F	PHYSICAL METALLURGY	TUE. DEC. 20,1994 - 2:00 P.M.	MMS306F A
C	MMS307F	TRANSPORT PHENOMENA	MON DEC 12,1994 - 2:00 P.M.	MMS307F C
C	MMS309F	MATERIALS PHYSICS	THR DEC. 15,1994 - 9:30 A.M.	MMS309F C
C	MMS326F	PROC.& QUALITY CONT.	TUE. DEC. 13,1994 - 9:30 A.M.	MMS326F C
B	MMS415F	MINERAL SEPARATION	FRI DEC. 16,1994 - 2:00 P.M.	MMS415F B
A	MMS420F	BIOMATERIALS	MON DEC. 19,1994 - 2:00 P.M.	MMS420F A
A	MMS433F	METAL FORMING OPS.	THR DEC. 08,1994 - 2:00 P.M.	MMS433F A
C	MMS502F	MAT.PROC.& THE ENV	FRI. DEC. 16,1994 - 9:30 A.M.	MMS502F C
A	PHY180F	PHYSICS I-MECHANICS	MON. DEC. 19,1994 - 9:30 A.M.	PHY180F A
A	PHY280F	PHYSICS II	WED. DEC. 07,1994 - 2:00 P.M.	PHY280F A
C	STA293F	PROB. & STATISTICS	TUE DEC. 20,1994 - 2:00 P.M.	STA293F C

-ALL EXAMINATIONS LAST 2.5 HOURS.
-FOR ALL EXAMINATIONS, PERMISSIBLE AIDS ARE A PEN AND PENCIL, A BILINGUAL DICTIONARY, DRAFTING INSTRUMENTS AND, IF PERMITTED, AN ELECTRONIC CALCULATOR (SEE BELOW), WITHOUT THEIR CARRYING CASES.
-UNLESS SPECIFICALLY PROHIBITED, THE USE OF CERTAIN TYPES OF NON-PRINTING, SILENT, SELF- POWERED ELECTRONIC CALCULATORS IS PERMITTED IN ALL EXAMINATIONS. THERE ARE RESTRICTIONS ON THE KINDS OF CALCULATORS PERMITTED. FOR COMPLETE INFORMATION SEE "INSTRUCTIONS FOR THE GUIDANCE OF CANDIDATES DURING EXAMINATIONS" POSTED OUTSIDE THE FACULTY OFFICE.

A: FOR THOSE EXAMINATIONS MARKED "A" ON THE TIMETABLE, A CANDIDATE MAY NOT BRING ANY AIDS OTHER THAN THOSE LISTED ABOVE.
B. FOR THOSE EXAMINATIONS MARKED "B" ON THE TIMETABLE, A CANDIDATE MAY NOT BRING ANY AIDS OTHER THAN THOSE LISTED ABOVE.

SEPARATE AIDS OR DATA, AS SPECIFIED AT THE TOP OF THE EXAMINATION PAPER, ARE PROVIDED BY THE EXAMINER FOR DISTRIBUTION TO THE CANDIDATES BY THE REGISTRAR OF THE FACULTY.
C. FOR THOSE EXAMINATIONS MARKED "C" ON THE TIMETABLE, A CANDIDATE MAY BRING TO THE EXAMINATION AND USE A SINGLE AID SHEET, PREPARED BY THE CANDIDATE ON THE STANDARD FORM PROVIDED BY THE LECTURER
D: FOR THOSE EXAMINATIONS MARKED "D" ON THE TIMETABLE, A CANDIDATE MAY BRING TO THE EXAMINATION AND USE SUCH BOOKS, NOTES OR OTHER PRINTED OR WRITTEN MATERIAL AS MAY BE SPECIFIED BY THE EXAMINER,
X. FOR THOSE EXAMINATIONS MARKED "X" IN THE TIMETABLE, AND ONLY THOSE, A CANDIDATE MAY BRING INTO THE EXAMINATION ROOM AND USE ANY BOOKS, NOTES, OR OTHER PRINTED OR WRITTEN MATERIAL FOR HIS OR HER USE ONLY

-STUDENTS SHOUI D CONSULT THE "SEATING LISTS" POSTED OUTSIDE THE FACULTY OFFICE, GALBRAITH 157, TO DETERMINE THE LOCATION AND SEATING FOR EXAMINATIONS
-STUDENTS WRITING ARTS AND SCIENCE EXAMINATIONS WILL WRITE AT THE TIME AND PLACE DESIGNATED ON THE ARTS AND SCIENCE EXAMINATION TIMETABLE.
-THOSE STUDENTS WITH EXAMINATION CLASHES MUST REPORT THEM TO THE OFFICE OF THE REGISTRAR, GALBRAITH 157, PRIOR TO DEC 2, 1994
-MISREADING THE TIMETABLE WILL NOT BE ACCEPTED AS A REASON FOR FAILING TO ATTEND AN EXAMINATION.
-CHECK THE TIME OF DAY AS WELL AS THE DATE FOR EACH EXAMINATION. DO NOT ASSUME THAT THERE IS ANY FIXED "PATTERN" BETWEEN SERIES OF COURSE NUMBERS AND THE TIME OF DAY FOR THE EXAMINATION

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